



NITE-TIMES NEWS

CHICAGO AREA TIMEX USERS GROUP

Chicago Area Timex Users Group
Volume 8, Number 5

Bonney Grove, Illinois
September/October 1994

MEMORY MAP

ROUTINES

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C.A.T.U.G. CLUB OFFICERS

Here is the list of 1994 club officers and how to contact them. The club has two strong SIGS, SPECTRUM/TS2068 and QL. If you have questions about either of these fine machines, or even the ZX81/TS1000/TS1500, call one of the officers. C=312, S=708.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Nazir Pashtoon	S439-1679	The buck stops here...
Vice-President	Steve Cooper	S968-3553	Meeting Planning, etc.
Secretary	Larry Sauter	C763-5383	Records and Reporting
Treasurer	Frank Mills	S544-1918	Dues and Purchasing
Editor	Bob Swoger	S576-8068	Newsletter, BBS, etc.

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NITE-TIMES NEWS

Nite-Times Information

The **Nite-Times** News is the newsletter of the Chicago Area Timex Users Group. For an annual fee of \$12.00 you can become a CATUG member and receive six newsletters each year. Write your check payable to:

FRANK MILLS
417 S 47th AVE
BELLWOOD IL 60104

The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting user groups at no charge. Send all newsletter requests to:

CATUG EDITOR BOB SWOGER
613 PARKSIDE CIRCLE
STREAMWOOD IL 60107-1647

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

Articles originating from our group may be downloaded from our BBS and reprinted.

CONTRIBUTORS TO THIS ISSUE

Al Feng
Frank Mills
Larry Sauter
Bob Swoger, K9WVY

CLUB MEETINGS

The Chicago Area Timex Users Group meets on the THIRD Saturday of each month at the home of our meeting coordinator Steve Cooper in Downers Grove, Illinois from 1:00 to 5:00 PM. Steve's home is lovingly called

the CLUB HOUSE and is located at 1300 Maple Street in Downers Grove just 2 blocks southwest of the Downers Grove Public Library. Steve should always be contacted evenings at 708/968-3553 to confirm the meeting schedule.

TREASURY NOTES

The balance as of Nov. 1, 1994 is \$364.43 Our current paid membership stands at 19.

Frank Mills, Treasurer
Chicago Area Timex Users Group

SECRETARY'S NotePad

September 17, 1994

Meeting began at approximately 2:35 P. M.

Members present: Steve Cooper, Frank Mills, Nazir Pashtoon, Bob Swoger, Phillip Kwitkowski, Larry Sauter, John Donaldson, Abed Kahale, Jeff DeCourtney, George Zimmerman, and Bobby Muth.

The reason Bob hasn't gotten out the Nite Time's News is that he has been battling the Park District and he has been busy with that endeavor.

Abed has become the glad recipient of an optical scanner and optical character recognition courtesy of his children.

Rod Gowen wrote Abed and told him about his failing eyesight and Bob was going to send him his latest release of Logicall and the description of what it will now do. The package should be available for \$15.00.

Bob described the picnic at his home and the number of guests that enjoyed the afternoon at his house and the demonstration that ensued of a CoCo computer that has a 68340 processor that was as fast as can be with a read and write optical drive with 21 megs of capacity on 3 1/2 inch drive. Heavy duty stuff.

Larry Sauter, Acting Secretary
Chicago Area Timex Users Group

From the EDITOR'S Disk

It doesn't seem that long ago that from the land where folks had empty coal buckets at home came the \$99 Sinclair ZX80 Computer. Next year the ZX81. I got hold of the ZX81 ROM and dropped it into my ZX80. What computing power! One program I entered took 23 minutes to give me an answer after I pressed the ENTER key (and it was the right answer). 1985 bought me a TS2068 for my birthday. I didn't feel I needed it but when I unplugged the \$29 ZX81 and plugged in the TS2068, I couldn't go back. Shopped and compared and got a LarKen disk drive interface. Plugged it into a 3 1/2" drive - 100 programs - felt like a hard drive. Magazines and newsletters provided more information than anything I could have learned hacking around. These writings are the life blood which kept the users going so long after the manufacturers abandoned us. From Canada came some of the best.

Well, now one of my favorite newsletters just signed off in the same elegant fashion that they maintained throughout their twelve year history. When we read that they might stop publication, we wondered what could be the problem up there? The articles seemed so strong and informative. ZX81, TS2068 and the QL were all well represented. Canada users seemed light years ahead of our midwest groups in learning about their machines and were bringing us up to speed through the SINC-LINK newsletter.

It seemed that there were so many readers. So sure were we that there was still great interest in Sinclair computers north of the border that we sent all the known members listed in the final issue free copies of ZXir QLive Alive! newsletter to keep the Canadian Sinclair users connected. Two responses came pouring in!

Was this due to the fact that the quality of the SYNC-LINK newsletter was so much better

than ZQA? No, I don't think so. George, you said the TTSUC group had 'BECOME LONG IN THE TOOTH', guess you were right - we down here just didn't see it coming.

Articles from George Chambers, Larry Crawford, Bob Mitchell and others were always what we LarKen users waited for while our QL owners scanned the pages for Hugh Howie's QL articles. Jeff Taylor must have kept the whip cracking for new articles and with the help of print factory written by the Boisverts, put out one of the prettiest newsletters we'd ever seen. I want to tell you folks that the CATUG group for one could hardly wait the two months to see what new treat SINC-LINK would give us next.

Well done, Canada - Jeff Taylor - Bob Mitchell - Bill Lawson - Louis Laferriere - Larry Kenny - Hugh Howie - Larry Crawford - Howard Clase - George Chambers - Rene Bruneau - Eric & Kris Boisvert - Andre Baune - you guys showed us some class - your work was top notch!

Thanks to many Canadian users, we now have the utilities to make good looking newsletters - cards - banners, make sprites, read IBM text files, change any bit on a disk to suit our needs, all sorts of new LarKen printing and disk management utilities, even rebuild the directory track on the LarKen disks if needed - the Canada users were our PETER NORTON.

We stateside users hope you don't retire your setups completely so that we might get help from time to time. The challenges of Sinclair computing are still out there.

George, what I hope you can still find time to do is inform us LarKen users how to convert those snaps that run on the ZX80 emulator to LarKen NMI saves. LarKen still doesn't have a utility to check disk drive speed. We feel that the Canada group may be the only ones that

can figure that out for us. So you see, there was some work left that needed doing.

As for the state side Timex/Sinclair users - WE ARE STILL ALIVE! T/SNUG continues its newsletter with a few more members every year as user groups dissolve. T/SNUG has a BBS to pass Sinclair related files and dialogue. Michigan's Q-BOX BBS not only continues to support Sinclair machines but also supports those that switched to an IBM platform supplying help for QXL users and Z80 emulator users to run both Spectrum and TS2068 programs. We are very fortunate to still have Mechanical Affinity, RMG, UPDATE! magazine and others to support.

We are really grateful for what all of you in Canada have given us over the years including great friendships!

---GATOR---

Bob Swoger, Editor
Chicago Area Timex Users Group

GATOR's TWISTED PAIR

!!!! REMEMBER !!!!
We have a 24 hour BBS and encourage you to exchange mail and contribute to the Download Section. Use it and have fun!

Call the BBS at 708-632-5558 and register. On your next call your security level will be increased to 5 on this RBBS and you will be able to have most privileges.

Bob Swoger, SYSop
Chicago Area Timex Users Group

ITEMS FOR SALE THROUGH THE CLUB

It has come to our attention that some LarKen Users are using something less than Version 3 firmware. The club will supply updated EPROMs, SYSTEM DISKS, and MANUALS for just \$5 which includes shipping and handling, free if ordered with LogiCall or Spectrum ROM.

If you are a LarKen LKDOS owner and would like a SPECTRUM V2 kit for your system we will supply an EPROM, socket and

74HCT32 for \$12 which includes shipping and handling. The install instructions are in your LarKen manual. We shall not be responsible for your install job. AERCO owners need only the SPECTRUM EPROM for \$10

If you have a mismatch between your LarKen DOS EPROM and your Western Digital Controller chip, we will send you the correct one for free on behalf of our friends Rod Gowen of RMG and Larry Kenny of LarKen. You should be using L3 EPROMs with WD1770 controller chips or L3F EPROMs with WD1772 controller chips. Check it out! Call in requests to Bob Swoger at W708-576-8068 H708-837-7957

SPECIAL DEALS AND BUYS

NAP_Ware (Nazir A. Pashtoon's new endeavor) announces the availability of all Timex or QL PAL (Programmable Array Logic) chips. If interested, call him evenings on 708-439-1679.

LogiCall Integrated Software Ensemble easy operating system for LKDOS in both TS2068 and Spectrum modes includes LogiCall 5.0 TASWORD TWO V2.8, VU-CALC V1.6, VU-FILE and MTERM2 Drivers modified for LogiCall, DISKS.B1 TAPES.B1 steprt.B1 HEADER.BT (tape header reader by Nazir Pashtoon) FORMAT.B MOVE.B1 and more all on 2 SSDD disks for \$15. You must specify your LKDOS EPROM version. If you already have a copy you are encouraged to distribute copies to other LarKen LKDOS users for as you see by the price we are not in the business of making money on it, just making LarKen's LKDOS even better! Call in requests to Rod Gowen of RMG Enterprises or Frank Davis of Mechanical Affinity.

So you like to fly? The 747 Flight Simulator for Spectrum by Derek Ashton of DACC sold over 40K copies in EUROPE. Requires Spectrum Emulator. At this time supplied on LarKen

SSDD disk only for \$10 which goes to Derek Ashton, now working at MOTOROLA with Bob Swoger. Call in requests to Bob at W708-576-8068 H708-837-7957

ARTICLES

ADDING TWO MORE DRIVES EASY Saturday morning Task by Bob Swoger

Did you ever get going on one of those little tasks that could be done in an hour or two on a Saturday morning? Here's a for instance - Phil Kwitkowski called and asked to do a little file transferring from the BBS. "Sure, no problem". After he downloaded five files, it was my turn to get some files from him. He put the MaxCom disk in drive ZERO and then "Darn! I wish I had more drives!"

Well that should be no problem. Although Phil had acquired an Apollo case for his first two drives, we thought he'd never find another case to match. Miraculously, a friend had one sitting around and offered it to Phil. The case had a power supply and THREE disk drive connectors but room for only two half height drives. It really looks great and professional on the TS2068 hutch!

Phil had just been to two computer fests and picked up a couple of three half height DSDD drives for \$5. He already had the cable and a quick trip to the local Radio Shack store gave us enough connectors to complete the job. Hey! a lot of great new and close out items around the store. Well, that trip cost us an hour!

Now Phil had the first drive on his TS2068 using a cable Abed Kahale had made for him. The cable connected the two drives together and then ran out the back of the Apollo box and went right to the LarKen interface board.

Now if this was to be a quick Saturday morning project we would

leave the first cable pretty much alone and just add one 34 pin board edge connector to it. We would build a cable for the second Apollo box identical to the first so that the second box could be unplugged from the first with ease. And now the elegant part. We would fashion a printed circuit board out of an old scrap board in my junk box that contained about fifty .1 inch traces, 25 on each side, running the length of the board.

Phil had a band saw and cut a small piece of the board so that 17 traces on each side of the board were left and at a width just wide enough to slip into the 34 pin board edge connectors. For the rest of this writing we shall call this board a cable interconnect board.

We added a Radio Shack 34 pin board edge connector to the cable of the first box, slipped the little cable interconnect board into it, and then plugged the cable from the second disk drive box into the other end of this cable interconnect box. Get it? Now the two cables are in parallel!

But when we powered up the lights on all four drive's came on! Hey - no problem! the cable in the first box must have been built with the red tracer of the ribbon cable on pin 34 instead of pin one. We will just power down and reverse one of the connectors on the cable interconnect board.

We powered up again. No problem! All the lights are off. At the drive prompt in LogiCall we entered '0'. Drive 0 turned and we got a CATALOG but at the top it said CRC ERROR 000! We entered '1' at the program prompt. Drive 1 turned and another CATALOG with CRC ERROR 000! Drive 2 and 3 didn't even turn! We felt the panic begin but we remained analytical. We disconnected the second drive. We asked for CATALOGS again. Both drive still gave us the same CRC ERRORS. Also, drive 1 was now making a grinding sound. We changed the disks in both drives for fresh

ones. All was fine now! We had corrupted two disks!

Next we unplugged the first set of drives from the LarKen and tried the second set of drives. They worked fine! Hey! I thought there was a cable in this system that was made with the red tracer on pin 34 - not so if both drives work independently! The little board we made must be the culprit. Maybe the traces on the gold plated end are too close together and short out the connector. I had seen in the past. Improperly plugged-in connectors in the LarKen system caused pins in the connector not to connect to the board traces due to improper alignment. Let's make another cable interconnect board from a section of the board where the traces remain .1 inch the whole length of the board. Also we will be sure that it is wide enough to remain tight at the ends of the connector. It took two tries!

Phil fashioned the board and began stripping the solder resist from the foil so that the connectors would make contact with the traces. I looked into the two connectors side-by-side that his masterpiece was about to connect together this time with the perfection of accuracy. ARGH! Wait a minute! This isn't going to work! I screwed up! Pin 1 on one cable is going to connect to pin 2 of the second cable - everything is reversed! That's why all the drives came on the first time!

Brains still working, I grabbed a short six inch long cable from the junk box with 34 pin board edge connectors on both ends and plugged it onto the cable interconnect board Phil had just completed. I put the first cable interconnect board we thought was bad into the connector on the other end. I then plugged the two cable interconnect boards into the connectors of both drives. We powered up on the RAMDISK with LogiCall - at the Drive prompt 0 - 1 - 2 - 3 - 4 - all five drives

answered up with CATalogs! Voile - it all worked!

Phil's mom invited us upstairs for a dinner of broccoli soup. It was delicious! Dinner!!!? Yes - Phil and I just come to realize that we had just blown away another perfectly good Saturday morning! [Yea, and a Sunday morning writing this article!]

MDIR_BAS v1.05
by
Al Feng

MDIR_BAS (v1.05) is a SuperBASIC program designed to facilitate using the **MAKE_DIR** keyword (FLP/RAM, [SUPER] GOLD CARD, QXL).

The **MAKE_DIR** keyword is used for creating **sub_DIRECTORIES** -- that is, subordinate DIRECTORIES to the main directory. On the QL, these appear as names appended an arrow-type symbol ('->').

I have found that on some occasions (I think this is caused by using an older TURBO TOOLKIT), the **MAKE_DIR** command is ignored by my QL. This is "corrected" by re-invoking the **TK2_EXTENSIONS** command.

If you do not yet have the **MAKE_DIR** keyword on your system, then you can modify the program for other purposes by having the appropriate DEFINED PROCEDURES perform the tasks you want.

The SuperBASIC LISTing is not optimized; but, compiles easily.

A CPORted {ANSI} version is also included for comparison for those interested in seeing how a functional 'C' program looks. I have not tried compiling the **MDIR_c** code, yet.

Using MDIR_BAS

MDIR_BAS uses the five function keys and the Escape key (to quit). Simply press the appropriate function key for the QDOS device on which you wish to **MAKE_(a_sub_)DIR(ectory)**. The options are:

```
f1p1 == [F1]
f1p2 == [F2]
win1 == [F3]
win2 == [F4]
other == [F5]
```

Thus, if you want to make a sub_DIRECTORY on 'f1p1' you would press 'F1'. You should see a flashing_cursor within a highlighted (green) strip which should correspond with the function_key that you pressed. INPUT the sub_DIRECTORY name.

If you INPUT "test" (for example), when you exit the program you should see the name "test ->" in the appropriate DIRECTORY.

If you INPUT a name longer than 10 characters, the menu window will reset. Use this feature to your advantage if you decide that you have selected the wrong storage device.

If you select 'F5' for 'other', you must input the DEvice name, including the underscore ('_').

Of course, press the ESCape_key if you want to exit the program.

There is no error_trapping in version 1.xx of the program. If you duplicate an existing filename, the program will halt. (NOTE: MDIR_exe 2.xx has a duplicate name trap and accompanies all PLATYPUS Software programs).

Some thoughts about CPORT & MDIR_c

The 'C' programming language is very much ballyhooed as being the ideal vehicle for writing transportable source code that can then be compiled for different computer operating systems. I don't know if this is true or not.

I have heard that 'C' is apparently a preferred programming language because most computer science students have to learn it, and that having gone to the effort they are reluctant to

abandon it. I don't know if this is true or not, either.

I do know that because it is a mid-level language it does not have many of the amenities (i.e., keywords) found in BASIC.

I know that there had been many rudimentary concepts about the 'C' language that I did not "grasp" because I had relied quite heavily on various books which obviously presumed you knew things that I obviously did not!

The first was the "main()" designation. Stating what is now the obvious, it is that portion of a SuperBASIC program that is not contained as PROCedures (presuming you are using PROCedures).

The next thing that is worth mentioning which seemed "strange" was the structure and notation. Some time ago I ascertained that the "strange" notation/structure is a byproduct of the language having been designed to be hand written, first, rather than on a terminal. Thus, REMarks are framed by "/* */"; each statement is written on a separate line; and, so on. When scribbled on a legal pad, the notation seems quite appropriate; and, almost logical. So, I bought my copy of CPRT (Digital Precision) from Mechanical Affinity last Fall. It was expensive, but it was certainly no more expensive than a course on 'C' would have been; and in the end, there is nothing quite like having the benefit of a rosetta stone to see how PROCedures and their statements translate directly to the 'C' language from SuperBASIC.

Now, my first attempts at using CPRT resulted in more ERRORS and WARNINGS than I would have thought.

Initially I was disappointed and frustrated by my first attempts because I use the TURBO compiler which is apparently more demanding than the LIBERATOR; and, certainly more demanding than interpreted SuperBASIC. I put the program away for several months since I had other things to do.

Well, I come from a long line of read-the-instructions-last users. This is not to say that I don't read the instructions, but since I think the computer is supposed to make things easier, I especially think that most "modern" software should be relatively easy to use. Really good design, regardless of mode of expression, usually has a simple elegance underlying it.

One problem I encountered on my initial attempts to CPORTE a program was using the INKEY\$ keyword. Fortunately, there are two, short, sample programs included with CPORTE, one of which employs INKEY\$!

My other problem involved slicing an array. This took more effort, and periodic thought over a six month period.

CPORTE's limitations are the SuperBASIC code that you give it to translate. GIGO, indeed!

The limitations of the 'C' language's transportability should be obvious when you look at the number of statements which begin 'SB' (SuperBASIC) suggesting that some "massaging" certainly needs to be done to the code if it is to be used on another computer platform.

Nonetheless, I hope the inclusion of the CPORTEd code makes some aspects of the 'C' language less cryptic.

HAPPY TRAILS, AND COMPUTING, TO YOU

= [Program listing on page 11] =

ADS

To put an AD in the BBS and newsletter, upload a file with the filename.filename:

CATUGxxx.ADS

where xxx is your initials.
! ! ! Our ADS are free ! ! !

Your ADS appear in FOUR different newsletters!

FOR SALE: 941015
%%%%%%%%%%%%%
Macintosh Software for sale:
HyperCard 2.1
(Development Package) \$35
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Any information such as catalog
description, owners manual, or
service manual (to buy or copy)
for a Radio Shack Realistic
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Frank Cerny 708-576-2443 days
8922 W 24TH ST
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know of anyone who has this
type of software, contact me
PLEASE! Ann Jenkin 708-538-3598

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 NEW AMIGA 500 IN BOX ALL DOCS.
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 Larry Sharpe
 PO BOX 62156
 CINCINNATI OH 45262-0156

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 %%%%%%%%%%%%%%
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 2. Os-9 Level 11.....\$10
 3. Color Profile.....\$10
 4. Os-9 Level I
 with Basic09*\$10
 5. Basic09 Tour Guide Book
 FREE with 2 or 4 above.
 6. Complete Rainbow Guide to
 OS-9 Book
 ...FREE with 2 or 4 above.
 * Item #4 contains vs. 01.01.00
 & vs. 02.00.00
 Tandy Cat. no's. 26-3030

CAUTION: "YOU" pay all mailing
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 or via Internet to
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+w Phoenix, Az 85029-2579
 COCO HARDWARE FOR SALE:
 1. COCOIII w/Tandy 512K RAM &
 w/manual & ECB User's Guide if
 desired.....\$75
 2. COCOII 64K RAM ECB\$10

These Color Computers will
 require from \$10 to \$15 U.S.
 Postage for 1st Class, insured.
 UPS via truck (10 days) is
 somewhat less and all packages
 are supposed to be covered for
 up to \$100 automatically.
 Please send inquiries to
 Farrell Kenimer.
 Both these machines are surplus
 to my needs as I own two other
 512K CoCos.

FOR SALE 940304
 %%%%%%%%%%%%%%
 CoCo3 128K - CoCo3 512K
 Disk DR 0 Disk DR 1 & 3 (DSDD)
 4 Disk Controllers
 2 EPROM burners
 MPI (PAL) Soft case
 For CoCo:
 MODEM 2, LIGHT CONTROLLER
 LINE PRINTER 120
 DIGISECTOR DS-60/69B
 SPEECH SOUND CARTRIDGE COCOMAX
 ALL DISK PROGRAMS ALL TAPES
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 I have one (1 count'em) Nuvotel
 96424IFX internal fax/modem for
 sale. It does data at 2400bps
 and faxes at 9600bps. I have
 used it for about a year and it
 performs flawlessly. Data side
 has V.42bis compression & error
 correction protocols and MNP
 classes 2,3,4, and 5. Fax is
 group 3 compatible with V.29,
 V.27 ter, V.23, V.22bis, V.22,
 and V.21 recommendations. (That
 means it does a good job). \$30
 gets it. Includes DOS software
 and everything to hookup.
 Mark Hall
 hallmark@netcom.com
 (214)262-8320

MDIR_bas

```
100 DIM BLANK$(24), Knot$(24), thi$(20), thi2$(15), F$(15), t$(3),
    dev$(24)
110 BLANK$=""                                ": REMark 21 SPACES
120 Knot$="invalid QDOS device!"
130 F$="_FLIST_imp": t$="flp"
140 a=1: POKE 163890,0: MODE 0
150 Wt: Wz: Wo
160 FILE
170 DEFine PROCedure Wt: WINDOW#2,512,256,0,0: PAPER#2,7: END DEFine
180 DEFine PROCedure Wz: WINDOW#0,413,10,50,241: PAPER#0,7: INK#0,2:
    END DEFine
190 DEFine PROCedure Wo: WINDOW 462,250,25,3: PAPER 7: BORDER 1,7:
    END DEFine
200 DEFine PROCedure Sound: BEEP 900,20: PAUSE 5: BEEP 900,40:
    END DEFine
210 DEFine PROCedure Noise: BEEP 2000,20: END DEFine
220 DEFine PROCedure CheckKey
230 REPeat key
240 ke=CODE(INKEY$)
250 IF ke=232 OR ke=236 OR ke=240 OR ke=244 OR ke=248 THEN EXIT key
260 IF ke<236 AND ke>27 THEN BEEP 900,40: CheckKey
270 IF ke=27 THEN Noise: PAUSE 10: Sound: Bye: EXIT key
280 END REPeat key
290 END DEFine
300 DEFine PROCedure FILE
310 d=0: CSIZE 0,0
320 WINDOW#1,512,256,0,0: PAPER#2,7: INK#2,0: CLS#2: INK 0
330 LINE 0,96.5 TO 512,96.5: LINE 0,92 TO 512,92: Noise
340 STRIP 7: INK 2: AT 1,55: PRINT' @ PLATYPUS Software'
350 AT 1,7: STRIP 0: INK 7: PRINT" DEVICE "
360 MAKER
370 END DEFine
380 DEFine PROCedure MAKER: d=0
390 WINDOW#0,124,132,42,20
400 PAPER#0,7: BORDER#0,1,0: CLS#0
410 AT#0,0,0: INK#0,0
420 PRINT#0," flp1 == [F1] "
430 PRINT#0," flp2 == [F2] "
440 PRINT#0," win1 == [F3] "
450 PRINT#0," win2 == [F4] "
460 PRINT#0," other == [F5] "
470 STRIP#0,2: INK#0,7: PRINT#0,\'      MDIR 1.05z      '
480 STRIP#0,0: INK#0,7: PRINT#0,BLANK$: INK#0,0: STRIP#0,7
490 CheckKey
500 YourChoice=ke
510 SElect ON YourChoice
520 =232: AT#0,1,0: highlight: t$="flp": a=1: dev$="flp1_": AT#0,1,0:
    INK#0,0: PRINT#0," ";dev$: AT#0,1,7: INPUT#0,thi$: MakeOne
530 =236: AT#0,3,0: highlight: t$="flp": a=2: dev$="flp2_": AT#0,3,0:
    INK#0,0: PRINT#0," ";dev$: AT#0,3,7: INPUT#0,thi$: MakeOne
540 =240: AT#0,5,0: highlight: t$="win": a=1: dev$="win1_": AT#0,5,0:
    INK#0,0: PRINT#0," ";dev$: AT#0,5,7: INPUT#0,thi$: MakeOne
550 =244: AT#0,7,0: highlight: t$="win": a=2: dev$="win2_": AT#0,7,0:
    INK#0,0: PRINT#0," ";dev$: AT#0,7,7: INPUT#0,thi$: MakeOne
560 =248: AT#0,9,0: highlight: AT#0,9,0: INK#0,7: PRINT#0," >":
    INK#0,0: AT#0,9,2: INPUT#0,thi$: MakeOTHER : REMark use CTRL ]
570 MAKER
580 END SElect
590 END DEFine FILE
600 DEFine PROCedure highlight: STRIP#0,5: INK#0,7: PRINT#0,BLANK$:
```

```

END DEFine
610 DEFine PROCedure TooLong
620 IF LEN(thi$)>10 THEN Noise: MAKER: END IF
630 END DEFine
640 DEFine PROCedure MakeOne
650 TooLong
660 IF d=1 THEN MAKER
670 IF LEN(thi$)<=10 THEN MAKE_DIR dev$&thi$
680 Sound
690 MAKER
700 END DEFine
710 DEFine PROCedure MakeOTHER
720 IF thi$(5)<>"_" THEN Noise: AT#0,9,0: PRINT#0,Knot$: PAUSE 30:
    STRIP#0,0: INK#0,7: AT#0,12,0: PRINT#0,Knot$: INK#0,0: Noise:
    PAUSE 30: MAKER
730 IF LEN(thi$)>15 THEN Noise: MAKER
740 IF thi$(5)=="_" THEN t$=thi$(1 TO 3): a=thi$(4): thi2$=thi$(6 TO
LEN(thi$))
750 IF thi$(5)=="_" THEN MAKE_DIR t$&a&"_"&thi2$
760 Sound
770 MAKER
780 END DEFine
790 DEFine PROCedure Bye: CLS#2: INK#2,2: AT#2,17,28:
    PRINT#2," @ PLATYPUS Software ":" END DEFine

```

MDIR_c

```

/*
* Program : MDIR_c
* Author  : Al Feng
* Purpose : implement MAKE_DIR keyword
* CfiXed by CfiX "V4.03" 1995 Apr 26 18:54:49
*/

```

```

#define prog_version      "1.05z"
#include "Test_h"
#include <cport.h>
#define BLANK              ""
#define Knot               "invalid QDOS device!"
#define F                  "_FLIST_imp"
#define RN                ""
#define d                 0
#define BLANK_ab1          1
#define dev_ab1            1
#define F_ab1              1
#define Knot_ab1           1
#define RN_ab1             1
#define t_ab1              1
#define thi_ab1            1
#define thi2_ab1           1
#define u_ab1              1
float a;
float ke;
float YourChoice;
CP_FILE sb_channo[16];
char thi[20+1-thi_ab1+1];
char thi2[15+1-thi2_ab1+1];
char t[3+1-t_ab1+1];
char u[16+1-u_ab1+1];

```

```

char dev[24+1-dev_ab1+1];

void PROCedure main() {
    CP_Initialise();
    /**** DIM stmt deleted - may need to reinitialise array(s) */
    /* DIM BLANK$(24), Knot$(24), thi$(20), thi2$(15), F$(15),
    t$(3), dev$(24) */
    /* 21 SPACES */
    strcpy(t, "flp");
    a = 1;
    SB_Poke(163890, 0);
    SB_Mode(0);
    Wt();
    Wz();
    Wo();
    FILE();
    exit(0);
enddef

void PROCedure Wt() /*> 170 */
{
    SB_Window(FNO(2), 512, 256, 0, 0);
    SB_Paper(FNO(2), 7);
enddef

void PROCedure Wz() /*> 180 */
{
    SB_Window(FNO(0), 413, 10, 50, 241);
    SB_Paper(FNO(0), 7);
    SB_Ink(FNO(0), 2);
enddef

void PROCedure Wo() /*> 190 */
{
    SB_Window(FNO(1), 462, 250, 25, 3);
    SB_Paper(FNO(1), 7);
    SB_Border(1, 7);
enddef

void PROCedure Sound() /*> 200 */
{
    SB_Beep(900, 20, 0,0,0,0,0,0);
    SB_Inkey(FNO(0), 5);
    SB_Beep(900, 40, 0,0,0,0,0,0);
enddef

void PROCedure Noise() /*> 210 */
{
    SB_Beep(2000, 20, 0,0,0,0,0,0);
enddef

void PROCedure CheckKey() /*> 220 */
{
    while ( 1 ) {
        /*> key */
        ke = (float) (SB_Inkey(FNO(0), 1));
        if (ke == 232 || ke == 236 || ke == 240 || ke == 244 || ke ==
248) {
            break;
            /*> key */
        }
    }
}

```

```

if (ke < 236 && ke > 27) {
    SB_Beep(900, 40, 0,0,0,0,0,0);
    CheckKey();
endif
if (ke == 27) {
    Noise();
    SB_Inkey(FNO(0), 10);
    Sound();
    Bye();
    break;
/*> key <*/
endif
endwhile
enddef

void PROCedure FILE() /*> 300 <*/
{
    SB_Csize(FNO(1), 0, 0);
    SB_Window(FNO(1), 512, 256, 0, 0);
    SB_Paper(FNO(2), 7);
    SB_Ink(FNO(2), 0);
    SB_Cls(FNO(2), 0);
    SB_Ink(FNO(1), 0);
    SB_Line(FNO(1), 0, 96.5, 512, 96.5);
    SB_Line(FNO(1), 0, 92, 512, 92);
    Noise();
    SB_Strip(FNO(1), 7);
    SB_Ink(FNO(1), 2);
    SB_At(FNO(1), 1, 55);
    fprintf(FNO(1), " @ PLATYPUS Software\n");
    SB_At(FNO(1), 1, 7);
    SB_Strip(FNO(1), 0);
    SB_Ink(FNO(1), 7);
    fprintf(FNO(1), " DEVICE \n");
    MAKER();
}
enddef

void PROCedure MAKER() /*> 380 </*
{
    SB_Window(FNO(0), 124, 132, 42, 20);
    SB_Paper(FNO(0), 7);
    SB_Border(FNO(0), 1, 0);
    SB_Cls(FNO(0), 0);
    SB_At(FNO(0), 0, 0);
    SB_Ink(FNO(0), 0);
    fprintf(FNO(0), "\n flp1_ == [F1] \n");
    fprintf(FNO(0), "\n flp2_ == [F2] \n");
    fprintf(FNO(0), "\n win1_ == [F3] \n");
    fprintf(FNO(0), "\n win2_ == [F4] \n");
    fprintf(FNO(0), "\n other == [F5] \n");
    SB_Strip(FNO(0), 2);
    SB_Ink(FNO(0), 7);
    fprintf(FNO(0), "\n      MDIR 1.05z      \n");
    SB_Strip(FNO(0), 0);
    SB_Ink(FNO(0), 7);
    fprintf(FNO(0), "%s\n", BLANK);
    SB_Ink(FNO(0), 0);
    SB_Strip(FNO(0), 7);
    CheckKey();
    YourChoice = ke;

switch ( YourChoice ) {

```

```

case 232 : SB_At(FNO(0), 1, 0);
    highlight();
    strcpy(t, "flp");
    a = 1;
    strcpy(dev, "flp1_");
    SB_At(FNO(0), 1, 0);
    SB_Ink(FNO(0), 0);
    fprintf(FNO(0), "%s\n", dev);
    SB_At(FNO(0), 1, 7);
    SB_Input(FNO(0), "%s\n", thi);
    MakeOne();
    break;
case 236 : SB_At(FNO(0), 3, 0);
    highlight();
    strcpy(t, "flp");
    a = 2;
    strcpy(dev, "flp2_");
    SB_At(FNO(0), 3, 0);
    SB_Ink(FNO(0), 0);
    fprintf(FNO(0), "%s\n", dev);
    SB_At(FNO(0), 3, 7);
    SB_Input(FNO(0), "%s\n", thi);
    MakeOne();
    break;
case 240 : SB_At(FNO(0), 5, 0);
    highlight();
    strcpy(t, "win");
    a = 1;
    strcpy(dev, "win1_");
    SB_At(FNO(0), 5, 0);
    SB_Ink(FNO(0), 0);
    fprintf(FNO(0), "%s\n", dev);
    SB_At(FNO(0), 5, 7);
    SB_Input(FNO(0), "%s\n", thi);
    MakeOne();
    break;
case 244 : SB_At(FNO(0), 7, 0);
    highlight();
    strcpy(t, "win");
    a = 2;
    strcpy(dev, "win2_");
    SB_At(FNO(0), 7, 0);
    SB_Ink(FNO(0), 0);
    fprintf(FNO(0), "%s\n", dev);
    SB_At(FNO(0), 7, 7);
    SB_Input(FNO(0), "%s\n", thi);
    MakeOne();
    break;
case 248 : SB_At(FNO(0), 9, 0);
    highlight();
    SB_At(FNO(0), 9, 0);
    SB_Ink(FNO(0), 7);
    fprintf(FNO(0), "\n");
    SB_Ink(FNO(0), 0);
    SB_At(FNO(0), 9, 2);
    SB_Input(FNO(0), "%s\n", thi);
    MakeOTHER();
    MAKER();
    break;
endswitch
enddef

```

```

void PROCedure highlight()      /*> 600 <*/
{
    SB_Strip(FNO(0), 5);
    SB_Ink(FNO(0), 7);
    fprintf(FNO(0), "%s\n", BLANK);
enddef

void PROCedure TooLong()      /*> 610 <*/
{
    if (strlen(thi) > 10) {
        Noise();
        MAKER();
    endif
enddef

void PROCedure MakeOne()      /*> 640 <*/
{
char cp_strwk1[dflt_str_size];
    TooLong();
    if (d == 1) {
        MAKER();
    endif
    if (strlen(thi) <= 10) {
        SB_Make_Dir(CP_Concat(cp_strwk1, dev, thi));
    endif
    Sound();
    MAKER();
enddef

void PROCedure MakeOTHER()      /*> 710 <*/
{
char cp_strwk1[dflt_str_size];
char cp_strwk2[dflt_str_size];
char cp_strwk3[dflt_str_size];
char cp_strwk4[dflt_str_size];
    if (thi[5-thi_ab1] != '_') {
        Noise();
        SB_At(FNO(0), 9, 0);
        fprintf(FNO(0), "%s\n", Knot);
        SB_Inkey(FNO(0), 30);
        SB_Strip(FNO(0), 0);
        SB_Ink(FNO(0), 7);
        SB_At(FNO(0), 12, 0);
        fprintf(FNO(0), "%s\n", Knot);
        SB_Ink(FNO(0), 0);
        Noise();
        SB_Inkey(FNO(0), 30);
        MAKER();
    endif
    if (strlen(thi) > 15) {
        Noise();
        MAKER();
    endif
    if (thi[5-thi_ab1] == '_') {
        CP_Slice(t, thi, 1-thi_ab1, 3-thi_ab1);
        a = (float) (thi[4-thi_ab1]);
        CP_Slice(thi2, thi, 6-thi_ab1, strlen(thi)-thi_ab1);
    endif
    if (thi[5-thi_ab1] == '_') {
        SB_Make_Dir(CP_Concat(cp_strwk4, CP_Concat(cp_strwk3,
CP_Concat(cp_strwk2, t, ftoa(cp_strwk1, a)), "_"), thi2));

```

```
endif
Sound();
MAKER();
enddef

void PROCedure Bye()      /*> 790 <*/
{
SB_Cls(FNO(2), 0);
SB_Ink(FNO(2), 2);
SB_At(FNO(2), 17, 28);
fprintf(FNO(2), " @ PLATYPUS Software \n");
enddef

/* Cport: Translation done, at 2840 statements per minute.
0 errors and 0 warnings. */
```

MDIR_h

```
void Wt();
void Wz();
void Wo();
void Sound();
void Noise();
void CheckKey();
void FILE();
void MAKER();
void highlight();
void TooLong();
void MakeOne();
void MakeOTHER();
void Bye();
```

